

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

MCA (2019 & Onwards) (Sem.-3)

JAVA PROGRAMMING

Subject Code : MCA-304

M.Code : 74076

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

- 1) a) How Java is important to internet? 5
b) Explain various logical operators. 5
- 2) a) Discuss the role of break and continue statements by giving suitable examples. 4
b) Discuss the role of abstract keyword in Java. 6

SECTION-B

- 3) a) What do you mean by streams? Explain the process of Handling and using various stream classes. 5
b) Explain Exception handling mechanism used in java by giving suitable examples. 5
- 4) What are Packages? Explain the procedure of creating and using packages by giving an example. 10

SECTION-C

- 5) What do you mean by applets? Explain its types. How do applets differ from application program? Explain with help of example. 10
- 6) Describe Graphic Programming in detail. What do you mean by Layouts, Frames and Panels? Explain in detail. 10

SECTION-D

- 7) What do you mean by socket programming? Explain various methods associated with TCP and UDP. 10
- 8) Describe the use of java beans in JSP for working with java Mail. 10

SECTION-E

- 9) **Answer briefly :** (2×10=20)
- a) What do you mean by Abstract classes?
 - b) Discuss Method overriding.
 - c) What is Type conversion?
 - d) What is JVM and JVM Programming?
 - e) What are remote objects?
 - f) Describe dynamic dispatch method with example.
 - g) What are the features of swings?
 - h) What are dynamic web pages?
 - i) Write short note on J2EE.
 - j) Discuss RMI Client.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.